



UNIVERSITY OF
TORONTO

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CALL FOR

PARTICIPATION

HONORARY DEGREE

NOMINATIONS WANTED

The honorary degrees
committee welcomes
nominations for honorary
degrees to be awarded
at convocations in 2012
and 2013. To nominate
your choice, forms
are available on the
Governing Council
website, <http://www.governingcouncil.utoronto.ca/bac/hd.htm>
The deadline for
nominations is Aug. 15.

[WWW.NEWS.UTORONTO.CA/
BULLETIN.HTML](http://WWW.NEWS.UTORONTO.CA/BULLETIN.HTML)

THAT FAMILY FEELING
Elder care, non-traditional
families and more ...
— pages 6 - 7

JULY 19, 2011 64th year, number 19

the Bulletin

Ontario invests \$22.5M in Goldring Centre

BY ALTHEA BLACKBURN-EVANS

The University of Toronto will soon be home to the only research-intensive centre for sport excellence in Ontario, thanks to a significant investment by the Ontario government. The government announced that it will invest \$22.5 million in the \$58-million Goldring Centre for High Performance Sport, a multi-storey complex that will be the first of its kind in Ontario. U of T continues its fundraising efforts for the centre, which to date have received support from several key donors including an \$11 million gift from the Goldring family.

"This investment by the Ontario government will enhance educational opportunities for hundreds of our students and improve the student experience for thousands more," said President **David Naylor**. "The Goldring Centre will also bring together scientists, graduate students, sports medicine specialists and trainees, athletes and coaches. As such, it will support our efforts to integrate research, education and practice and help Canada 'own the podium' in the decades ahead."

With its emphasis on interdisciplinary, collaborative research, the Goldring Centre represents an inspired vision of the future of teaching, research and the student experience. The multi-storey facility, to be located at Bloor and Devonshire, will encompass teaching and research labs; a 2,000-seat internationally certified field house for basketball and volleyball; expanded facilities for the U of T Sports Medicine Clinic; and a strength and conditioning centre.

Undergraduate and graduate teaching will benefit from the new facilities, while scientists, physicians and therapists working with athletes, coaches and industry specialists will develop new approaches for high performance sport in both training and treatment. The results — enhanced sports science and sports medicine — will have benefits that reach far beyond top athletes.

"High performance sport is an important part of the physical activity spectrum and we need to understand that entire spectrum in order to reap benefits for all Canadians," said Professor **Ira Jacobs**, dean of the Faculty of Physical Education and Health. "Understanding healthy high performance sport can provide a key reference point to more fully understand the impact of

... ONTARIO ON PAGE 4

JUMP UP



JING-LING KAO

Ella Crossland-Coghill enjoys every moment of her Camp U of T gymnastics program. The camps, catering to a wide variety of interests, run throughout the summer. Visit www.campuoft.ca.

Order of Canada to induct 12 from U of T community

BY ELAINE SMITH

Professor **Peter Singer**, a world leader in health research, and opera singer **Mary Lou Fallis** are among the University of Toronto faculty and alumni recognized by the Governor General with appointments to the Order of Canada July 1.

Alumni and faculty comprise nearly 25 per cent of David Johnston's 50

new appointments to the order, one of Canada's highest civilian honours. The list includes two U of T faculty members, one retired dean and nine alumni.

Established in 1967, during Canada's centennial year, the order recognizes a lifetime of outstanding achievement, dedication to community and service to the nation.

The newest officers include Professor

... ORDER ON PAGE 4

Acclaimed astronomer wins McLean Award

BY PAUL FRAUMENI

Since earning his PhD from Harvard in 2000, Professor **Ray Jayawardhana** has been recognized for his wide-ranging contributions to astronomy with a bevy of accolades, including the Steacie Prize for Natural Sciences, the Steacie Memorial Fellowship and Canada's Top 40 Under 40. He is also an award-winning science writer and author of the new book

Strange New Worlds: The Search for Alien Planets and Life Beyond Our Solar System.

Now he has another major prize to add to his impressive resumé — the 2011 McLean Award.

The award is funded jointly by a gift from U of T alumnus William McLean and U of T's Connaught Fund. The \$100,000 prize is for researchers within 12 years of their PhD who are conducting

... ASTRONOMER ON PAGE 4

LETTER FROM THE EDITOR

Family issues ...

are the focus of our centre spread this month. Empty nesters, non-traditional families, child care benefits and caregivers: writers **Anjum Nayyar** and **Kelly Rankin** shed some light on their concerns (see pages 6-7). They're topics that will touch us all at one time or another.

These stories remind us that U of T researchers are regularly seeking solutions and offering insights into issues that have an impact on the emotional aspect of our daily lives. In our fast-paced world, with its focus on technological change, it's easy to forget that we are also human beings with personal needs and worries.

The piece about U of T's child care benefit, in particular, reminds us that we're part of a larger U of T family, too, as do the stories about our new leadership at Governing Council (see page 3) and in alumni relations (see page 2) and the In Memoriam piece about the late **Robin Jackson** (see page 8). It's the people who make U of T the wonderful institution it is and it's important not to lose sight of that fact as we go through our daily work routines.

That's not to say that we should downplay the role of technological or scientific change, of course. Check out U of T's new computerized map (see page 8) to see its immediate impact on our working lives. There are also stories about the amazing research that we often take for granted here, given the plethora of talented investigators. Don't miss the new nanotechnology research by Professors **Ted Sargent** and **Shana Kelley** (see page 5) or the work on trees and memory by **Professor Malcolm Campbell** (see page 5).

Even in scientific research, the notion of family rears its head. The exciting blood stem cell discovery (see page 5) by Professor **John Dick** builds on the work of two earlier members of our U of T family, University Professor Emeriti **James Till** and the late **Ernest McCulloch**, the fathers of stem cell research.

And, as all good families are wont to do, we brag about the achievements of our "relatives" in the front page stories about Order of Canada appointees and our McLean Award winner. As members of the U of T family, there are many reasons to be proud.

Cheers,

Elaine

Elaine Smith

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FACULTY OF APPLIED SCIENCE & ENGINEERING

The Department of Chemical Engineering & Applied Chemistry is the winner of two 2011 Hermes Creative Awards from the Association of Marketing and Communication Professionals. The department's weekly e-newsletter CHEM ENG NEWS (CEN) won a platinum award in the e-newsletter category, while a series of promotional videos for its graduate program won gold in the web video category. Also recognized were five videos promoting the department's graduate studies. The Hermes Creative Awards is an international competition for creative professionals involved in the concept, writing and design of traditional materials and programs as well as emerging technologies.

FACULTY OF MEDICINE

Professor Tom Chau of the Institute of Biomaterials and Biomedical Engineering and **Professor Avrum Gotlieb** of laboratory medicine and pathobiology have been selected to receive 2010-2011 Graduate Faculty Teaching Awards. Gotlieb is the winner of an award for sustained contribution to excellence in graduate teaching, recognizing sustained contribution(s) to any aspect of graduate teaching including a course, curriculum development, graduate program administration, graduate student supervision or academic role modelling. Chau won the award for graduate student mentorship, recognizing sustained (more than five years) contribution to graduate student mentorship. Early Career Excellence Awards were presented to Professors **Richard Bazinet** of nutritional sciences and **Evelyn Lambe** of physiology. The awards recognize outstanding contributions to the training and experience of graduate students

AWARDS & HONOURS

as evidenced by excellence in teaching, supervision or mentorship and dedication to students. Winners received their awards at the annual Education Achievement Celebration April 26.

Professor Leah Cowen of molecular genetics is the winner of the American Society for Microbiology Merck Irving S. Sigal Memorial Award, recognizing excellence in basic research in medical microbiology and infectious diseases. Cowen is described as "an emerging leader in the field of medical mycology, who continues to break new ground in understanding the mechanisms of fungal drug resistance and pathogenesis," by her nominator Professor Susan Lindquist of the Massachusetts Institute of Technology. Cowen received the award during the society's annual meeting May 22 to 24 in New Orleans, La.

FACULTY OF MUSIC

Professor Emeritus Phil Nimmons, director emeritus of jazz studies, is the recipient of an honorary degree from McGill University's Schulich School of Music. Nimmons, whose spectacular career as a bandleader, jazz musician, jazz educator and composer has spanned six decades, is cited as a passionate and tireless advocate of music. A founding member of the Canadian League of Composers, Nimmons was the recipient of the first-ever JUNO to be awarded for jazz in 1977 and of the Governor General's Performing Arts Lifetime Artistic Achievement Award. In 2001, he was inducted into the Jazz Educators' Hall of Fame. Nimmons received his degree June 3 during spring convocation ceremonies.

U OF T PRESS

U of T Press is the recipient of Nebraska Book Company's inaugural Textbook Innovation Award, given in appreciation of campus retailers that are leaders in rental textbooks in North America. The award was presented April 13 at the U of T Bookstore on the St. George campus. U of T Press is also the winner of the Canadian Booksellers' Association's Libris Award for the campus bookseller of the year. While the award is based on many criteria, what differentiated the U of T Press most is how it is a leader in Canada in rental textbooks.

COMPILED BY AILSA FERGUSON

New assistant vice-president named

BY ELAINE SMITH

Barbara Dick, a 1987 University College and arts and science graduate, has been named assistant vice-president (alumni relations) effective immediately.

As she begins her new position, one of her goals is to provide opportunities for her fellow alumni to build upon the richness of their university experience throughout their lives.

"In addition to their degrees, we want to inspire our alumni to have pride in and awareness of the impact they and their fellow alumni make in Canada and around the world; that's why a big part of my job is helping to tell the alumni story — both within the university and beyond. If we tell that story in a compelling way, it will benefit both the university and the alumni.

"My experience as a student at the University of Toronto profoundly altered and shaped me as a young person, so I have

a very personal perspective on the transformative power of education," Dick said. "My belief in the University of Toronto's mission is the fuel that keeps my passion ignited.

"My vision is to create the most loyal, engaged, supportive alumni group in the world," said Dick, who previously served as executive director of alumni affairs. "But we'll only win the hearts and minds of our diverse and accomplished alumni group by adding real value to their lives through meaningful programs of the highest quality," she added.

"In the midst of a city that offers the best of everything, the University of Toronto's unique offering is our intellectual capital. Our alumni can share in the excitement of our discoveries and benefit from lifelong learning opportunities on our campuses and more remotely through the web and through regional programs."

The goals are challenging, but Dick is no stranger to challenges.

She led the recent revitalization of the Spring Reunion program that has seen an unprecedented number of alumni return to campus, has expanded the regional representative network to 33 countries and oversaw the relaunch of the alumni website with its compelling video portraits of prominent alumni.

David Palmer, vice-president (advancement), said Dick was selected after a search that reached across the U.S. and Canada and considered candidates from both the public and private sectors.

"Barbara emerged as the unanimous choice of the [search] committee for her deep knowledge of the field, her leadership and executive experience, her penetrating insights into future opportunities to build alumni affinity and engagement in an integrated fashion across all advancement programs and her grasp of the enormous potential within the university's diverse alumni communities," said Palmer.

The top and sidebar art on the front page is composed of photographs taken at the University of Toronto.

UTM's North and Davis Buildings to get \$52.5 million

BY JANE STIRLING

Think of it as U of T Mississauga 2.0. The buildings that launched U of T Mississauga are about to get a massive upgrade as a result of a \$52.5 million investment by the Ontario government.

Harinder Takhar, minister of government services and MPP for Mississauga-Erindale, announced recently that the North Building's academic spaces will be completely overhauled and will include new space for the Departments of Mathematical and Computational Sciences and Psychology. At the same time, the William G. Davis Building (formerly the South Building) will undergo significant renovations to create leading-edge laboratory space for more biology and chemical and physical sciences students.

"With the investment announced today, the province of Ontario is joining with the university to make a significant difference in the everyday experience of students on this campus," said Professor **Deep Saini**, vice-president and principal of

U of T Mississauga. "Our university's success depends not simply on excellent faculty, staff and students but, critically, on the quality of the built environment and the facilities that stimulate and inspire our students."

Saini noted that U of T Mississauga's enrolment has doubled in the last 10 years, creating current demand for more and better spaces. Combined with a burgeoning high school population in the GTA and a growing international student body, the demand for more spaces will increase. "We need space that will accommodate student growth and enhance the student experience. And we need space that is home to a first rate learning and working environment."

The North Building reconstruction and Davis Building renovation project will cost a total of \$75 million — \$52.5 million from government with the remaining \$22.5 million to come from U of T. It marks the first phase of a multi-year reconstruction of the rapidly expanding U of T Mississauga campus, which is set to open



DIANA MCNALLY

The North Building at the University of Toronto Mississauga will undergo an overhaul, thanks to an investment from the Ontario government.

two brand new buildings later this year: the \$35-million Terrence Donnelly Health Sciences Complex and the \$70-million Instructional Centre.

"Ontario is putting students first by creating more opportunities at our colleges and universities so we can build the skilled and knowledgeable workforce needed for the global economy," said John Milloy, minister of training, colleges and universities, in a news release. "Our government's investment in the University of Toronto Mississauga campus

will provide more places for students to learn sciences that will play an important role in developing our economy."

U of T Mississauga is the second-largest division of the University of Toronto.

"This investment by the Ontario government is very welcome news and another encouraging sign of the government's commitment to post-secondary education in our province," said President **David Naylor**. "As the University of Toronto Mississauga continues its exciting expansion, the

government has partnered with us again to ensure that students will have the leading-edge facilities they need for an exceptional educational experience. We are grateful that our students will now have even better opportunities to make a brighter tomorrow for themselves and our province."

The renovation projects at U of T Mississauga are anticipated to create 525 construction-related jobs. "Our government's investment in the Mississauga campus adds to the province's future prosperity," said Takhar.

Discovery builds on U of T prowess in stem cell science

BY JANE FINLAYSON

For the first time since stem cells were discovered by U of T researchers 50 years ago, scientists have isolated a human blood stem cell in its purest form — as a single stem cell capable of regenerating the entire blood system. This breakthrough opens the door to harnessing the power of these life-producing cells to treat cancer and other debilitating diseases more effectively.

The research is published in *Science*.

"This discovery means we now have an increasingly detailed road map of the human blood development system including the much sought after stem cell," said Professor **John Dick** of molecular genetics, the lead investigator, who holds a Canada Research Chair in Stem Cell Biology and is a senior scientist at the McEwen Centre for Regenerative Medicine and the Ontario Cancer Institute at the University Health Network (UHN).

"We have isolated a single cell that makes all arms of the blood system, which is key to maximizing the potential power of stem cells for use in more clinical applications. Stem cells are so rare that this is a little like finding a needle in a haystack."

Dick, who pioneered the field of cancer stem cells with previous discoveries in human

leukemia and colon cancer, also developed a way to replicate the entire human leukemia disease process using genetically engineered mice. In addition to his university and hospital appointments, he is director of the cancer stem cell program at the Ontario Institute for Cancer Research.

The 1961 discovery by University Professors Emeriti **James Till** and the late **Ernest McCulloch** quickly led to using stem cells for bone marrow transplantation in leukemia patients, the most successful clinical application so far in what is now known as regenerative medicine and a therapy that is used to treat thousands of patients annually around the world.

"Ever since stem-cell science began," said Dick, "scientists have been searching for the elusive mother lode — the single, pure stem cell that could be controlled and expanded in culture prior to transplantation into patients. Recently scientists have begun to harness the stem cells found in the umbilical cord blood; however, for many patients a single donor sample is not large enough to use. These new findings are a major step to generate sufficient quantities of stem cells to enable greater clinical use and thus move closer to realizing the promise of regenerative

medicine for patients."

Along the way, scientists have indeed mapped many vital signposts regarding stem-cell subsets and specialization. Last year, Dick's team reported isolating the more specialized progenitor cells that lie downstream of the stem cell.

Now, stem-cell scientists can

start mapping the molecular switches that guide how "normal" stem cells behave and endure and also characterize the core properties that distinguish them from all other blood cell types.

This discovery is the one Dick has personally been seeking ever since 1988 when

he developed the first means of studying human blood stem cells by transplanting them into immune-deficient mice, research that was also published in *Science*. "Back then, our goal was to define single human stem cells. With advances made in technology, 23 years later, we have."

New chair, vice-chair of Governing Council took office July 1

BY ANJUM NAYYAR

U of T is welcoming new leadership at Governing Council.

On July 1, Toronto chartered accountant **Richard Nunn** became chair of Governing Council and **Judy Goldring**, a Toronto lawyer and Victoria College alumna, took over as vice-chair. Their appointments are for one year.

Both Nunn and Goldring are long-term governors and supporters of the University.

Nunn, who joined Governing Council in 2004, is currently the managing partner of the Toronto Audit and Advisory Practice at Deloitte. He has many years of experience in the auditing profession, specializing in the financial services industry. Nunn is a lieutenant-governor-in-council appointee to Governing Council and was vice-chair this past year.

Previously he was chair of Business Board from 2007 to 2010. Beyond his volunteer service to the university, Nunn is active in fundraising activities for the Oakville Hospital, the United Way of Greater Toronto and for the Canadian Breast Cancer Foundation. He received his BSc from Loughborough University in 1989.

Goldring, who joined Governing Council in 2007, is currently executive vice-president, chief operating officer and general counsel for AGF Management Limited. In addition she is on the board of directors of AGF Management Ltd., a publicly traded global investment management firm trading on the Toronto Stock Exchange with more than \$50 billion of assets under management. She serves on the board of the Investment Funds Institute of Canada and is also a member of the Law

Society of Upper Canada and the Canadian Bar Association. Goldring is also involved in a number of charities, including the Juvenile Diabetes Research Foundation. In 2010, she was the co-chair of the Toronto JDRF Ride for Diabetes Research, an event that has raised millions for diabetes research over the years. She was also honoured as one of the *Women's Post* Top 20 Women of 2010.

Goldring received a bachelor of arts in economics from the University of Toronto and earned her law degree from Queen's University. She was called to the bar in 1993 in the Province of Ontario.

Governing Council, established by the University of Toronto Act in 1971, is the senior governing body that oversees the academic, business and student affairs of the university.

Ontario invests \$22.5M in Goldring Centre

CONTINUED FROM PAGE 1

physical activity and inactivity for human physical, mental and emotional health. This centre will be a tremendously exciting resource that will contribute to the development of the next generation of sport role models who will inspire and encourage Ontarians to lead healthier lives."

The Goldring Centre for High Performance Sport will also bolster the infrastructure of sport science and the profile of the sports, fitness and recreation industry in Ontario. It will provide a unique venue for hosting academic symposia, training camps and conferences for coaching and leadership development, while allowing the university to build on its outreach programs, including community memberships, programs for at-risk youth and family and children's programs.

Home to the single largest pool of competitive and amateur athletes in Canada, University of Toronto programs support more than 10,000 intramural athletes and nearly 1,000 intercollegiate athletes competing on 44 teams.

These co-curricular programs not only build a healthy student body but create a kind of living laboratory and unparalleled opportunities for multi-disciplinary collaboration.

"Our research platform — in which student athletes are also participants — cuts across athletic development, sports medicine and discovery in areas ranging from healthy ways of extending human athletic performance to the psychology of athlete-coach interaction," Jacobs said. "This facility will help to propel U of T towards excellence and innovation in sports science research."

"THIS FACILITY WILL HELP TO PROPEL U OF T TOWARDS EXCELLENCE AND INNOVATION IN SPORTS SCIENCE RESEARCH."

DEAN IRA JACOBS

Construction of the Goldring Centre is tentatively scheduled to begin next spring, with completion forecast for the summer of 2014.



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UNIVERSITY OF TORONTO
FACULTY OF MEDICINE

CHAIR, DEPT. OF OPHTHALMOLOGY AND VISION SCIENCES UNIVERSITY OF TORONTO, FACULTY OF MEDICINE

Applications are invited for the position of Chair, Department of Ophthalmology and Vision Sciences, Faculty of Medicine, University of Toronto, for a 5-year term beginning not later than July 1, 2012.

The Department of Ophthalmology and Vision Sciences is one of North America's foremost academic departments with an international reputation in leadership in education, research, and patient care. Through the affiliated teaching hospitals and the Kensington Eye Institute, its educational, research, and tertiary care programs are recognized around the world. For more detailed information on the department, visit its Web site at <http://utovs.med.utoronto.ca>.

The successful candidate will possess outstanding leadership, academic and administrative management, and interpersonal skills. S/he will bring vision and execute strategies that will enable the department to build and to sustain partnerships with local, national, and international stakeholders. S/he will be a respected clinician, with a track record of academic activity, who will lead the department in new directions. S/he will mentor faculty members and foster an environment of collaboration.

Applicants should possess a medical degree and specialty training in Ophthalmology. S/he should be eligible for academic appointment to the rank of full professor in the Department of Ophthalmology and Vision Sciences at the University of Toronto and for clinical appointment at a fully-affiliated hospital.

Applications, consisting of a letter of interest and CV, may be submitted online (visit www.jobs.utoronto.ca/faculty Clinical Faculty Job # 1100633) or by sending to:

Prof. Catharine Whiteside, Dean
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The closing date for this position is Thursday September 15, 2011, or until filled.

The University of Toronto is strongly committed to diversity within its community and especially welcomes applications from visible minority group members, women, Aboriginal persons, persons with disabilities, members of sexual minority groups, and others who may contribute to the further diversification of ideas. All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.

Order of Canada members named

CONTINUED FROM PAGE 1

Peter Singer of the Faculty of Medicine and alumni **Maureen Sabia** and **Ronald Worton**, promoted from members of the order. Officers are recognized for a lifetime of achievement and merit of a high degree, especially in service to Canada or to humanity at large.

Among the new members of the order are Professor **Samantha Nutt** of family and community medicine, former dean of medicine **Arnold Aberman** and alumni **Fallis**, **Malcolm Gladwell**, **Dorothy Griffiths**, **Eric Jackman**, **Joseph Kates**, **Robert Youngusband**, **McMurtry** and **David Staines**. Membership in the Order of Canada recognizes a lifetime of distinguished service in or to a particular community, group or field of activity.

Singer, a professor in the Department of Medicine, is the director of the McLaughlin-Rotman Centre for Global Health at U of T and the University Health Network and chief executive officer of Grand Challenges Canada. He is being honoured for his contributions to health research and bioethics, and for his dedication to improving the health of people in developing countries.

Sabia, chair of the board of the Canadian Tire Corporation, is a graduate of the Faculty of Law who is being lauded for supporting the advancement of

women in the corporate sector and for strengthening corporate governance.

Worton, chief executive officer and scientific director of the Ottawa Hospital Research Institute, earned his PhD at U of T and is recognized for his sustained commitment to the development of health research innovation in Canada.

The endeavours of U of T's nine new members of the Order of Canada reflect the motto of the order, *Desiderantes Meliorem Patriam*, They desire a better country.

Nutt is recognized for her humanitarian work, particularly for her contributions to improving the plight of young people in the world's worst conflict zones, notably as a founder of War Child Canada.

Aberman, who also served as physician-in-chief at Mount Sinai Hospital, is noted for his contributions to medical education and critical care practice in Canada.

An opera singer known as Canada's foremost musical comedienne, Faculty of Music graduate Fallis is honoured for making classical music more accessible to Canadians across the country.

Hard on the heels of receiving an honorary degree from the University of Toronto, Gladwell, a renowned author, is lauded for his contributions as a journalist and author and for his support of charitable causes.

OISE graduate Griffiths,

now a professor at Brock University, is being honoured for her advocacy on behalf of people with developmental disabilities and mental health needs.

Jackman, for whom OISE's Dr. Eric Jackman Institute of Child Study is named, is a Trinity College graduate who is being celebrated for his generous support of and leadership in the arts, education, health care and public policy.

The chief scientific officer of Calidris Therapeutics Ltd., Kates graduated from University College and went on to earn both a master's degree and a PhD at U of T. His contributions to the development and application of computer technology in Canada merit recognition by the Governor General.

A Faculty of Medicine graduate, McMurtry is special adviser to the Canadian Royal Commission on the Future of Health Care. He is being honoured for his leadership and vision in helping to strengthen health care delivery in Canada.

Staines, a St. Michael's graduate who is now a professor of English at the University of Ottawa, is being recognized for his contributions as a champion of Canadian literature and mentor to young writers.

These appointments were made on the recommendation of the advisory council for the Order of Canada. Recipients will be invited to accept their insignia at a ceremony to be held at a later date.

Astronomer wins McLean Award

CONTINUED FROM PAGE 1

work in physics, chemistry, computer science, engineering sciences or statistics. It is intended to help emerging research leaders attract promising graduate students and post-doctoral fellows to their labs.

"Congratulations to Ray and his research group," said Professor **Paul Young**, vice-president (research) and chair of the Connaught committee. "Their research on the formation of planets and stars is creating new knowledge that is truly mind boggling. Through Ray's leadership and expertise and the hard work and creativity of his group, we are learning so much about worlds beyond our solar system that were once only speculated about."

Jayawardhana, who is also Canada Research Chair in Observational Astrophysics, is highly regarded for his work on the origin and diversity

of planetary systems and the formation of stars and brown dwarfs (often called failed stars, brown dwarfs straddle the line between stars and planets and could help us understand the formation of both).

"I'm thrilled about this wonderful recognition for my research group and grateful for the support," said Jayawardhana. "The funding will help us keep the momentum going and pave the way for future discoveries."

Jayawardhana will use the McLean funding to focus on "extreme worlds."

"It's been an extraordinary time. In the past 15 years, astronomers have found over 500 confirmed planets outside our solar system. The pace of discovery is astounding and the diversity of these worlds is tremendous."

The "extreme worlds" that Jayawardhana's research group is exploring are made up of

two types of planets.

One type includes planets that orbit extremely close to their stars, much closer than any planet in our own solar system. Jayawardhana and his collaborators are using the Canada-France-Hawaii Telescope to make precise measurements of close-in planets that pass in front of and behind their star, to determine their atmospheric characteristics.

The other group comprises planets that orbit far from their stars — so far out, in fact, that scientists can actually take photos of these planets. Jayawardhana and his colleagues target nearby young stars with advanced instruments on some of the world's biggest telescopes, because young planets are much hotter and brighter, thus easier to image than old ones. Otherwise, the star's glare would hide the faint planets in its midst.

U OF T RESEARCHERS BUILD ANTENNA FOR LIGHT

BY JEF EKINS

U of T researchers have derived inspiration from the photosynthetic apparatus in plants to engineer a new generation of nanomaterials that control and direct the energy absorbed from light.

Their findings are reported in *Nature Nanotechnology*. The U of T researchers, led by Professors **Shana Kelley** and **Ted Sargent**, report the construction of what they term “artificial molecules.”

“Nanotechnologists have for many years been captivated by quantum dots — particles of semiconductor that can absorb and emit light efficiently and at custom-chosen wavelengths,” explained co-author Kelley of the Leslie Dan Faculty of Pharmacy, the Department of Biochemistry and the Department of Chemistry. “What the community has lacked — until now — is a strategy to build higher order structures, or complexes, out of multiple different types of quantum dots. This discovery fills that gap.”

The team combined its expertise in DNA and in semiconductors to invent a generalized strategy to bind certain classes of nanoparticles to one another.

“The credit for this remarkable result actually goes to DNA: its high degree of specificity — its willingness to bind only to a complementary sequence — enabled us to build rationally engineered, designer structures out of nanomaterials,” said Sargent of electrical and computer engineering, Canada Research Chair in Nanotechnology. “The amazing thing is that our antennas built themselves — we coated different classes of nanoparticles with selected sequences of DNA, combined the different families in one beaker and nature took its course. The result is a beautiful new set of self-assembled

materials with exciting properties.”

Traditional antennas increase the amount of an electromagnetic wave — such as a radio frequency — that is absorbed and then funnel that energy to a circuit. The U of T nanoantennas instead increase the amount of light that is absorbed and funnel it to a single site within their molecule-like complexes. This concept is already used in nature in light harvesting antennas, constituents of leaves that make photosynthesis efficient.

“Like the antennas in radios and mobile phones, our complexes captured dispersed energy and concentrated it to a desired location. Like the light harvesting antennas in the leaves of a tree, our complexes do so using wavelengths found in sunlight,” explained Sargent.

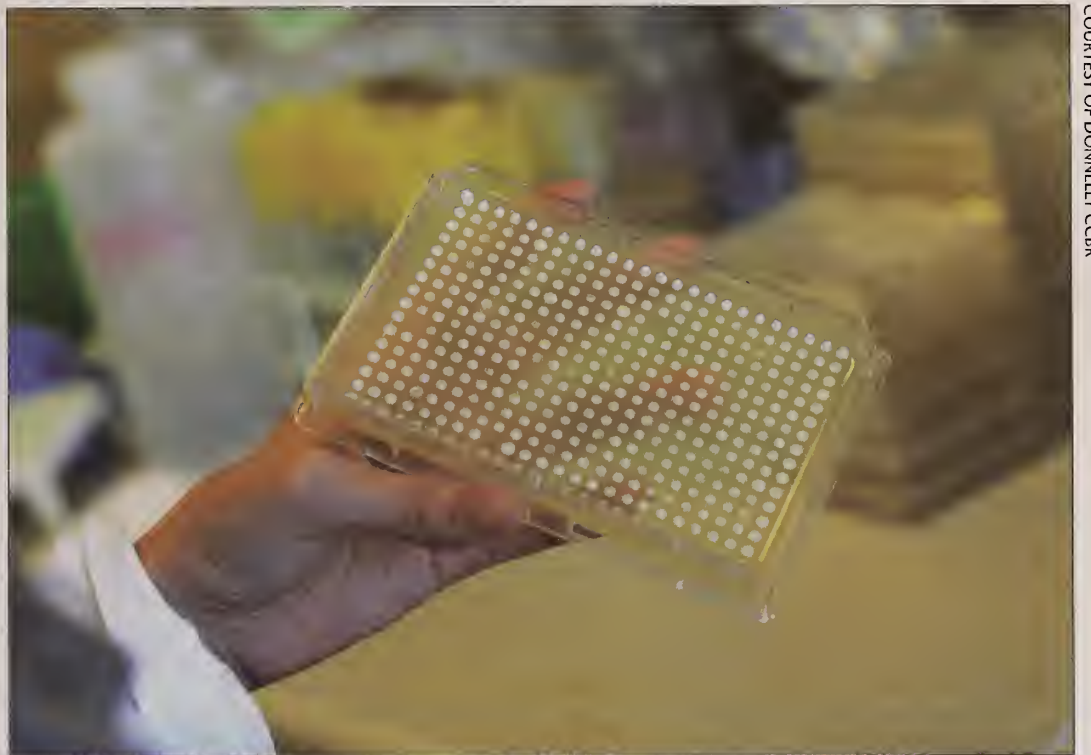
“Professors Kelley and Sargent have invented a novel class of materials with entirely new properties. Their insight and innovative research demonstrates why the University of Toronto leads in the field of nanotechnology,” said Professor **Henry Mann**, dean of the Leslie Dan Faculty of Pharmacy.

Kelley explained that the concept published in the July 10 *Nature Nanotechnology* paper is a broad one that goes beyond light antennas alone.

“What this work shows is that our capacity to manipulate materials at the nanoscale is limited only by human imagination. If semiconductor quantum dots are artificial atoms, then we have rationally synthesized artificial molecules from these versatile building blocks.”

Also contributing to the paper were researchers **Sjoerd Hoogland** and **Armin Fischer** of electrical and computer engineering and **Grigory Tikhomirov** and **P. E. Lee** of the Leslie Dan Faculty of Pharmacy.

Space shuttle takes Canadian yeast into orbit



COURTESY OF DONNELLY CBR

A U of T researcher holds an array of yeast cells, similar to the cells that were transported to the International Space Station by the space shuttle.

BY JOYANN CALLENDER

NASA’s final space shuttle mission launched recently carrying four astronauts and some unusual passengers — yeast cell growth experiments developed by Canadian researchers at the Donnelly Centre for Cellular and Biomolecular Research.

The Micro-4 project will study simple yeast cells to better understand human disease. The genetic makeup of a yeast cell is remarkably similar to that of a human cell, which makes it an ideal system for studying genetic defects and understanding how these defects may manifest in human disease. In two separate experiments conducted at the International Space Station researchers will study the effect of microgravity on cell growth, and how different mutant genes might affect susceptibility to a microgravity situation.

“The results of these experiments may provide critical insight into which set of human genes are important and how these genes work together to help humans

deal with extreme environments associated with space travel,” said Professor **Brenda Andrews**, researcher and director of the Terrence Donnelly Centre for Cellular and Biomolecular Research. “This information could inform future planned missions to Mars as well as longer term settlement of moon-and Mars-based colonies.”

In the first experiment, yeast cells will be grown in petri dishes and kept in temperature-controlled chambers. To prevent cell growth, the chambers will be kept at 4 C until the shuttle has reached the space station. Once on the station, chamber temperature will be increased to 30 C, an optimal temperature for yeast cell growth. The cells will be allowed to grow for 48 hours, after which they will be cooled back down and returned to Toronto for analysis.

In the second experiment, 6,000 different yeast cells, each identified by a special “bar-code,” will be grown in liquid broth and the crew will transfer the yeast cells to fresh liquid broth twice during the course of the mission.

These experiments will allow the team to see how the space environment and the genetic background of the cell combine to impact cell growth and survival.

“Little is currently known about the effects of long-term zero gravity on biological systems. Through these experiments, we expect to get a huge amount of new information about how genetic background affects survival in low-gravity, low-radiation environments, issues that are relevant to people exposed to these environments,” said Professor **Corey Nislow**, researcher and principal investigator at the Donnelly Centre for Cellular and Biomolecular Research.

The Micro-4 project is led by Professors Nislow, Andrews, **Guri Giaever** and **Charles Boone** of the Donnelly Centre. The project is co-ordinated by **Michael Costanzo**, project leader at the Donnelly Centre and is supported by Ames and BioServe Space Technologies. Timothy Hammond of the Durham Veterans Affairs Medical Center, Durham, N.C., is the principal investigator.

Trees ‘remember’ where they come from, ‘act’ accordingly

BY KURT KLEINER

Genetically identical trees respond differently to their environment depending on what part of the country they come from. This surprising finding could have implications for gardeners and foresters and might help predict how forests will respond to climate change.

“The findings were really quite stunning,” said Professor **Malcolm Campbell** of cell and systems biology and vice-principal (research) at U of T Scarborough. “Our results show that there is a form of molecular ‘memory’ in trees where a tree’s previous personal experience influences how it responds

to the environment.”

Campbell and his colleagues were interested in something called the “nursery effect,” which had long been noted by foresters and gardeners. Although many plants are genetically identical clones, it seemed that plants from different nurseries often grew differently in identical environments.

Campbell decided to look at poplar trees. Like many plants, poplars can reproduce themselves through their roots or through fragments of branches. These new trees are genetically identical clones of their parent trees.

Campbell’s graduate student, **Sherosha Raj**, obtained three

different types of genetically identical poplars from Alberta, Saskatchewan and Manitoba. The trees were grown in identical conditions. Then half were subjected to drought and half continued to be watered.

In two of the three varieties, the poplars responded differently to drought conditions depending on what part of the country they came from. The trees seemed to “remember” their previous environments.

Campbell’s group showed that the differences were at the fundamental level of gene activation. Identical plants from different parts of the country activated different sets of genes when

exposed to drought.

The results suggest that there is more diversity in stands of seemingly identical poplar forests than previously thought. Genetically identical stands of trees might still respond differently to drought, disease or pests.

The research was published in the journal *Proceedings of the National Academy of Sciences*.

Campbell’s research team included co-first author **Katharina Bräutigam**, **Erin Hamanishi** and **Olivia Wilkins**, all of the University of Toronto, and researchers at the University of British Columbia, Simon Fraser University and the University of Alberta.

FAMILY, CAREGIVING AND SENIORS

BY KELLY RANKIN

In a multicultural country like Canada we tend to celebrate the things that make us different.

However, **Lynn McDonald**, a professor at the Factor-Inwentash Faculty of Social Work and director of the Institute for Life Course and Aging, thinks it's time to start thinking about something that makes us all the same: aging.

"The question isn't if, it's when," said McDonald.

According to McDonald, the biggest social issue in Canada is the aging population and what the problem requires most is a new mindset.

"We need to adopt a less negative framework," she said. "We should look at it from a life course perspective."

"Aging is normal and people face different challenges in different age groups. Children have very many challenges to meet; so do older people, they're just different," added McDonald. "At the farther end of the spectrum there is a different set of problems."

Problems such as caregiving and the challenges it presents.

Since 1986, seven per cent of older people have lived in long-term care homes; the percentage remains constant. That means that 93 per cent of older Canadians live out in the community, which means they are either caring for themselves or being cared for by someone else.

Today, 20 per cent of Canadians provide care to someone 65 years of age and over. "Everybody is going to end up caregiving, even friends and single people," McDonald said.

In 2007, 70 per cent of caregiving was provided by family members, usually a spouse or children. The remaining 30 per cent of caregivers are friends,

extended family and neighbours.

The person most likely cared for is a mother and the person most likely to care for her is a woman. "Although men do caregive and are doing it more and more, their tasks are different," said McDonald. "For example, when it comes to personal care — bathing and dressing someone — it usually ends up as a woman's task."

The main age of caregivers is between 45 and 64. They are the generation caught in between the needs of the older and younger generations and are expected to meet the demands of both. Some maintain full-time work while providing care and some leave the labour force to care for a parent, thereby limiting their ability to save for their own old age.

"We did a study of men and women after the caregiving was over (after the spouse or parent they were caring for died) and how it affected their retirement and their income and it was really quite appalling," said McDonald. "Forty-one per cent of Canadians who are providing care take money out of their own pocket to do it."

The government of Canada does not provide a national homecare program and every province has its own policy. "In Ontario it's a patchwork of services," said McDonald.

The Institute for Life Course and Aging (www.aging.utoronto.ca) is affiliated with National Initiative for the Care of the Elderly (NICE), an international network dedicated to improving the care of older adults, both in Canada and abroad. To see what tools and resources are available for seniors and their families see www.nicenet.ca.

Additionally, the family care office at U of T has posted links to various seniors' organizations, caregiving support and homecare services on their website: www.familycare.utoronto.ca.



Professor Lynn McDonald of social work says issues surrounding aging touch all Canadians and should receive some government attention.

WE ARE

All of us are defined by c



COURTESY OF NICOLLE WAHL

The Wahl family, (left to right), Meghan, Nicolle, Andrew and Erik, rely on child care and appreciate U of T's benefits.

CHILDCARE BENEFIT A BOON TO FAMILIES

"IT IS
PROGRAMS LIKE
THESE THAT
MAKE US AN
EMPLOYER OF
CHOICE."

—PROFESSOR ANGELA HILDYARD

BY ANJUM NAYYAR

Like most moms, **Niccole Wahl**, UTM's communications and marketing manager and a mother of two, is constantly juggling priorities and a family budget. She says U of T's child care benefit plays a big role in that budget.

Faculty, librarians and most staff groups are entitled to reimbursement (a T4 taxable benefit) of eligible child care expenses each calendar year.

"The cost of raising children is only going up and getting a reimbursement of that size means that you can put that money towards other things, whether it's a mortgage or athletics program for your kids," said Wahl. "It makes things a little bit easier. We're all trying to trim our budgets in one way or another and every little bit helps."

"One of the things that is important for employees and their families is to have access to child care resources," said **Francesca Dobbin**, director of family programs and services

for Human Resources and Equity. "Obviously, the on-campus child care services wouldn't meet the needs of everyone in every situation. A child care benefit plan that employees can use with the child care plan they've chosen for their family is a more effective way in which we can support families with their child care costs."

Eligible child care expenses are reimbursed up to a potential maximum reimbursement of \$2,000 per child per plan year (subject to the overall plan maximum). The maximum amount will be pro-rated if an employee works less than full time or less than the full year.

"It's a fantastic benefit to have as a staff member," said Dobbin. "Amongst my friends, I don't know of anyone who gets that kind of a reimbursement from their employers."

"Child care costs can be very high and this is one way for the university to indicate its support for university families," said Professor **Angela Hildyard**, vice-president (human resources and equity). "It is programs like these that make us an employer of choice."

The benefit is applicable to child care centres, live-in and live-out caregivers and after school care.

"Both the folks at the human resources office and the school board made it a very simple process so I didn't feel I had to jump through bureaucratic red tape to access it," said Wahl.

For more information, review your employment policy or collective agreement or visit www.hrandequity.utoronto.ca.

FAMILY

our familial connections.

JOY, PARENTING AND ADULT CHILDREN

BY ANJUM NAYYAR

Children generally make a parent's life fuller and when they leave home there's a sense of sadness. When they return to the nest for happy occasions, mothers experience a measurable increase in the love they feel, says a U of T psychologist.

Emily Impett, an assistant professor in the Department of Psychology at U of T Mississauga, and her colleagues at the University of California, Berkeley, conducted a study of women's interactions with their grown children to determine whether there was any improvement in their emotional lives later in life.

The women in the study are part of an ongoing 50-year longitudinal study of women's development. They were recruited from California's Mills College in the 1950s. Eighty-three percent of the women had at least one child, but by age 61 only five per cent had adult children living at home.

"This study is the study to track older women's experiences with their grown children later in life," said Impett. "The women were first brought in for the study in their 20s and then again in their 40s, then 50s and then 60s for this study."



Professor Emily Impett

In the phase of the study conducted by Impett and her colleagues, women in their early 60s participated in a seven-day daily experience study of positive and negative events to examine how interactions with their grown children contributed to specific daily emotions, as well as how individual differences in adult attachment (comfort with intimacy) moderated these effects.

The 102 women received daily diary forms and were instructed to complete one diary each night at bedtime for seven consecutive nights. They reported on a positive and negative event each day, including the extent

to which they experienced joy, pride, love, sadness, anger and fear during each of these events.

Results reveal that when mothers interacted with their children, women low in attachment avoidance (those comfortable with intimacy) experienced boosts in joy, love and pride, whereas women high in attachment avoidance (those not as comfortable with closeness or intimacy) only experienced boosts in love.

**"LOVE
IS A CORE
EMOTION
IN
PARENT-CHILD
RELATIONSHIPS."**

— PROFESSOR EMILY IMPETT

Women who were more comfortable with closeness also experienced less anger but greater sadness during negative events involving their children, whereas for women not as comfortable with intimacy, the presence of their children didn't affect their feelings of anger or sadness.

Impett said that the results show that women who were less comfortable with intimacy weren't affected emotionally by the presence of their children. Women, however, who were more open to intimacy were enriched emotionally with more joy and love and pride when their children were present. This closeness also buffered these mothers against feelings of anger and frustration when interacting with their children; however, it also made them more vulnerable to inevitable pains and sorrows of daily life.

There was however an exception they discovered along the way.

"Even women who were high in avoidance or less comfortable with intimacy and closeness still experienced more love for the positive events in which their children were present. We think that speaks to the fact that love is a core emotion in parent-child relationships in that all women experienced love when their children were present for the positive events."

Impett is now planning a daily experience study exploring the transition to parenthood to followup on these findings in a sample of new mothers.

DEFINING FAMILY IN THE 21ST CENTURY

BY KELLY RANKIN

It is a common assumption that the word family refers to a nuclear family. But is this definition an accurate reflection of the way Canadians live today?

"Mom, dad and a couple of kids used to be the norm. Now it describes just one configuration of what family means today," said **Brenda Cossman**, a professor of law and director of the Bonham Centre for Sexual Diversity Studies.

Today it's not unusual for children to have three or four parents. It could be two gay couples or two re-married spouses; either way, the children of these families are being parented by more than two adults.

As Canadians redefine the family structure, how is the law keeping up?

For Cossman it's really a question of how people live in families, what they are actually doing.

"When it comes to how people live and behave in families, the law has very little to do with it in some ways," she said. "Family law is playing a catch up game," she added. "It's always behind and tracking the way families are actually living and then it deals with the particular problems that come from it."

But it doesn't have to be that way.

Cossman believes governments should come up with a proactive strategy for recognizing the different ways in which families are configured and the different parenting arrangements

and put something into place that recognizes these families.

For now, it's up to families like the one represented in the legal case A.A. v. B.B. v. C.C. to help broaden what it means to be a Canadian family.

In this case, a lesbian couple asked a gay man to help them have a child. The usual course is for the man to give up his parental rights after the child is born so the biological mother's partner can adopt the child and become a legal parent. However, in this case, all three parties wanted to be recognized as parents, thus giving the child three legally recognized parents. The court acknowledged this arrangement would be a benefit for the child and legally confirmed the family.

"There is a strong idea that a family can only have two adult partners in it but alternative parenting is expanding that, so there can be more than two parents," said Cossman. "However, there can never be more than two spouses. We're really stuck on that one."

Yet, in spite of this evolution of the family structure, the idea of the nuclear family remains ingrained in our thinking.

"People live in all kinds of ways and families; when we look at mom, dad and 2.4 kids, we just don't see it, even if it's right in front of us," said Cossman.

To find out about what parenting resources are available at U of T, check out the family care office's website: <http://www.familycare.utoronto.ca>.



Professor Brenda Cossman of law says that families can be configured in myriad ways.

New St. George map brings it all together

BY CHRIS GARBUTT

U of T's newest map (<http://map.utoronto.ca>) is interactive, layered and searchable. No longer will members of the U of T community have to find the right map for their interests. It's all there in one place. Users of the map will be able to do keyword searches or choose layers based on areas of interest.

"This means you don't have to know the names of buildings to find what you're looking for," said Cheryl Ziegler, project manager for the map and manager of IT and communications projects for Student Life. "You can search for something as simple as 'registrars' and find all the locations of registrars on campus."

Lucy Fromowitz, assistant vice-president (student life), said the new map brings together the best features of the previous maps. "Students were telling us that they wanted a better way to navigate the university," she said. "The map is a coherent response to a complex campus."

A joint effort of Student Life, Information + Technology Services and the office of space management (OSM), the Google-based map also brings together participants from a wide range of departments on campus, each of them responsible for a separate layer.

OSM director Steve Bailey said that the

partnerships will be central to the map's success.

"As much as people think that buildings don't change, there is an ebb and flow to university space," he said. "By having the right people manage the layers, we can get good information back from people. If things aren't accurate, we'll know that sooner."

The university's Next Generation Student Information Services (NGSIS) program staff played a key role in building the map. Program director Siobhan Keogh said the map fits perfectly with the program's goals of enhancing student experience.

"Previously students had to access several different maps to get all of the information they needed. This project brought together many departments to build a single map for the community. It is a terrific example of the collaborative approach for the NGSIS program," said Keogh.

"We're not just building a map for right now, we're building a map for the future," added Bailey.

Students will notice that the "map your classes" function on ROSI will appear on the new map.

As the project evolves, the map will expand to include the Mississauga and Scarborough campuses. The first map layers include accessibility, food, wireless, student services (including registrars), car parking, bike racks, TTC subway stations, green sites (including green roofs and battery drop-off sites), safety, student spaces and washrooms. And there are more layers to come.

"This new map does more than help people get around. It's adaptable to different experiences of the campus," said Fromowitz. "It's a living map that will change over time."

INTERVIEW WITH THE U OF T MAP

Q: What's your name?

A: My name is Path.

Q: When were you born?

A: My birthday is July 18.

Q: Where can we find you?

A: At map.utoronto.ca!

Q: Can anyone talk to you?

A: Yes! I'll answer your questions via Twitter (@uoftmap).

Q: Can I ask for relationship advice?

A: I think you should ask yourself why you're asking a map for relationship advice.

Q: Do you have any favourite spots on campus?

A: I love the entire campus — every place is special!

Q: So, what makes you special, Path?

A: I have many layers! (Like cake. And Shrek.)

Q: Do you have any favourite songs?

'I've Been Everywhere' by Hank Snow

Q: What if you've forgotten my office and I'm not on the map? How can I fix this?

A: As I grow up, I will constantly update myself with things I learn from other people.

IN MEMORIAM

Scholarship was Jackson's lasting legacy

BY AILSA FERGUSON

University Professor Emeritus James Robert de Jager Jackson of English, a longtime member of the Victoria College community, died April 29 after a long illness. He was 75 years old.



Canada in 1985.

As well as his extraordinary scholarly life, Jackson served Victoria College, Victoria University, the Department of English and the university on any number of committees and task

Jackson was born in St. Andrews, Scotland, and came to Canada at an early age. He attended Trinity College School in Port Hope, Ont., and received his BA from Queen's University in 1957. He received an MA from Queen's in 1958 and an AM from Princeton University in 1960, leading to his PhD from the same institution the following year. He earned a second PhD from the University of London in 1963.

Jackson joined Victoria College in 1964 as an assistant professor, progressing through the ranks to full professor in 1973. He was named University Professor in 1994, the highest honour the university accords its faculty, and retired in 2001.

Starting out as a specialist on Samuel Taylor Coleridge, Jackson steadily broadened his horizons. He was the author of *Method and Imagination in Coleridge's Criticism* (1969), *Poetry of the Romantic Period* (1980), *Historical Criticism and the Meaning of Texts* (1989) and *Romantic Poetry by Women: A Bibliography* (1993), among other publications. He was also the editor of two volumes of *The Collected Works of Samuel Taylor Coleridge* and the author of numerous articles. His last work, recently completed, was a comprehensive database of Romantic poetry in English. The recipient of a Canada Council Senior Fellowship, a Guggenheim Fellowship and a Killam Research Scholarship, among others, he was named a fellow of the Royal Society of

forces, both large and small. He was part of the transformative Macpherson Committee on Undergraduate Instruction in the Faculty of Arts and Science in the 1960s and the renegotiation of the Memorandum of Understanding between Victoria and the University of Toronto in the 1980s.

Jackson also served the scholarly community in other ways. For many years he served as a member of the manuscript review committee of the University of Toronto Press with colleagues Alexandra Johnston and Heather Murray. In her motion presented to the senate of Victoria University that he be appointed professor emeritus of Victoria in 2001, Murray referred to his reports as "always interesting and dryly humorous," quoted Johnston in the memorial resolution presented to the Victoria senate. "Those reports were typical of Robin — he was a wise and perceptive critic who could deliver a negative academic judgment on a manuscript with lucid gentleness," Johnston said.

A familiar figure at the High Table in Burwash Hall, "he enjoyed the company of his sometimes eccentric senior colleagues and mentored the younger ones with enormous intellectual generosity," Johnston said. "We have lost a scholar, a gentleman and a beloved colleague but we have all been enriched because he lived and served among us."

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HE SAID SHE SAID

THE ONCE AND ENDLESS MONARCHY

BY CAZ ZYVATKAUSKAS

They say that anything good that is worth having is worth fighting for — this is particularly true for members of a royal family.

Let us put aside for the moment common or garden variety palace intrigues and blood squabbles and focus instead on outright defences of the crown. No nation on earth knows more about this than our “motherland,” Great Britain.

In the olden days — and by olden days I mean as far back as the Picts and the Celts — there were myriad disputes over the right to bear the title of king or queen. This should come as no surprise but it is something we have neglected to consider when assessing the vibrancy and heart of the monarchy in this day and age. After all it was fresh assaults by Anglo-Saxons, Normans and assorted Plantagenets, Tudors, Stuarts and such that have made the head rest uneasy but have invariably made the crown a worthy prize.

Not to be outdone by rival royals, lords themselves took their run at the crown in 1215 with the Magna Carta. Over a century later the bold commoner Watt Tyler took a stab at rattling the crown and got a stiff message from Richard II for his troubles. And let us not forget Oliver Cromwell, who gave Charles I a royal shave.

With the days of locking up relatives in the tower and marching armies against the reigning monarch long gone, one wonders if this has resulted in a sort of palace ennui — akin to watching a potato slowly rot in a root cellar. Not that in those aforementioned days of old did the populace catch nearly as much sight of their sovereign as we enjoy today but it seems they certainly felt his or her presence in a more visceral way.

We have all been forced of late to watch or study endless accounts of duchess’ bonnets, gestures and mundane utterances. And all this because it is infinitely more interesting than the over-archingly dull doings of the real heir to the throne, Prince Charles.

Gone, it seems, forever, are the dust-ups that once plagued the royal house. Not that one would suggest a state of war is preferable over peace but when a royal family has nothing to fight for, can they possibly be as *en pointe* as befits the head of the empire? There can only be so much either scurrilous behaviour or effusive public service to satisfy a mob.

Which brings us to the latest and perhaps most virulent attack on the royal family. The method was low indeed, well below the belt, and the means appalling, yet when reading the headline *Tabloid Accused of Targeting the Royals* I had to think, isn’t it about time?

This is in no way an endorsement of the recent depraved actions taken by the *News of the World* in hacking into royal emails. As an aside, perhaps if Murdoch had made his attack on a more powerful monarch, say Richard III, justice might have been served a bit quicker.

However, the press in general figures



into the state of the present monarchy because their response to it has become very much what British royalty has become — a public relations exercise. They are rather good at it — in fact brilliant — and deserve all the credit for their good works and tireless visiting

and hand shaking. But it isn’t until one takes the long view that one realizes the unbroken but ponderously long road we have ahead of us with the House of Windsor. When will it end? Who is there to challenge the throne — ever?

In the short term we can no more hope for a young hero to pull a sword from a stone then we can for an invading king or queen to push the present royal line out of the crown’s path.

All this royal ennui makes me long for the Silver Jubilee of Elizabeth II when the cheeky Johnny Rotten and his cohorts the Sex Pistols released the damning single *God Save the Queen*. Despite its lyrics accusing the masses of being turned into morons through blind adoration of the monarchy, it was purchased by enough of us that it rocketed to No. 1 on the New Musical Express charts in the U.K.

Exciting as it all was back then it was no more than a stone thrown through the window at Buckingham Palace, rather than a real wake-up call about the tedium of the royal household. Still I would venture to think that if any serious contender, or even Mr. Lydon (aka Rotten), could be exhorted to return to the U.K. and mount an attempt to seize the crown we might have a real spectacle on our hands. Win or lose, the royal garden would finally produce some real blooming interest.

Caz Zyvatkaukas, a sympathizer whose meagre European potato kingdom was destroyed in the 1930s, is also a U of T history student who doubles as designer of the Bulletin. She shares this space with Paul Fraumeri.

LOOKING BACK — — — → Remembering the Royal Visit, 1991



U of T has had its share of royal visits. Here, Prince Charles greets students, staff and faculty outside Hart House in 1991 prior to a private luncheon given by Premier Bob Rae. It was attended by U of T president Robert Prichard and 25 cultural leaders. Photo taken Oct 25, 1991.

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Beautiful Riverdale (Broadview/Withrow Ave). 1-bedroom for faculty/grad student. Quiet, bright, modern, large deck, wireless, walk to TTC, parks. Clean, non-smoker, no pets. Aug. 1 or earlier for academic year (term negotiable). \$1,000 inclusive. Call John, 416-318-8697.

King-Bathurst. Downtown, furnished & equipped 1-bedroom apartment. \$1,275/m inclusive. Security, fitness centre, recreation & shopping on premises, near public transit & U of T. Details & photos at <http://toapt.tripod.com/ap12.html>; email micheline.scammell@sympatico.ca

Annex, Major Street. Beautiful, bright, recently renovated main floor, two bedrooms, living room, large eat-in kitchen, 4-piece bath, hardwood floors, 7 appliances, some furniture. Pleasant backyard, parking. 5-minute walk to Roberts Library, shopping, 10-minute walk to university hospitals. Suitable for professionals/academics/grads. All included, \$2,150. Aug. 15 to Sept. 1, 12-month lease. No smoking, no pets. Zakosh@me.com; 416-731-6716.

Annex. 2011-2012 academic year. Divine, fully furnished 3-bedroom home (2.5 bath, 1 office). 5- to 7-minute walk to shops, restaurants, subway. 15- to 20-minute walk to U of T (two subway stops). Beautiful neighbourhood with playground, public pool. 647-201-7274, julieailegro@hotmail.com

Annex, St. George/Bloor. Detached house on quiet street. Backyard, separate garage, 3 bedrooms, 3 bathrooms, 2 studies. 5-minute walk to St. George subway stop and U of T campus. No smoking, no pets. \$3,500/month inclusive. Available January to July or August. Pictures/inquiries: rentalannex@hotmail.com

High Park. Furnished house. 3-storey family home. Steps to TTC, park, shopping/restaurants on Roncesvalles. 30 minutes to downtown. Kid- & pet-friendly. Three bedrooms + study + sunrooms. Master with ensuite and balcony. Landscaped front and back yards. Fully equipped. Available September 2011 for a year (flexible). \$3,500/month including utilities and bi-weekly cleaning. References required. m.miao@utoronto.ca; <http://www.marshalllab.org/pdf/HouseforLease.pdf>

Spacious, quiet, fully-furnished apartment in the Annex available for 2011/2012 academic year sublet. One bedroom + office. Two levels, skylights, exposed brick, hardwood, deck, parking, laundry. Walk to U of T. \$1,650. No smoking or pets. 416-533-0152/snusophie@gmail.com

Heart of the Beach at Boardwalk/Lake. Amazing, bright, one-bedroom basement in quiet, professional, non-smoking building. Fantastic location, gas fireplace, spacious livingroom. Ten minutes to downtown, 24-hour TTC. Laundry. \$1,250 + some utilities. <http://www.viewit.ca/vwExpandView.aspx?ViT=99523>. Torontobeachesrental@gmail.com, 416-347-1282.

Avenue Road/Dupont. Fully furnished 1-bedroom apartment in great neighbourhood, available Sept. 3, 2011. Utilities and cable included. Private entrance, separate laundry, 10 seconds from Avenue Road bus. \$1,200. Interested parties please contact louannlige@rogers.com

Kennedy/401 luxury Tridel condo, 2,450 sq. ft., 3 bedrooms, 3 washrooms, family room, granite kitchen, hardwood floors, exclusive amenities, golf course view, 2 parking, locker, TTC and GO. \$2,650 inclusive. Rama Bahri Homelife GTA, 416-565-2596.

• Property for Sale •

Go Home Bay. Century cottage, 5 bedrooms, water access, fronts on wide sand beach, backs on secluded lakes. Roughly 8 acres. Boats and furnishings included. \$495,000. gorrell@isp.com 416-486-6242 or 705-756-4400.

• Vacation •

Eastbourne cottage rental. Lake Simcoe. Golf, tennis, swim, relax. Charming, comfortable 4-bedroom family cottage with modern conveniences. 60 minutes from downtown Toronto. Two-week minimum, monthly, seasonal. No pets. All utilities. 416-924-4536, atthirdee@primus.ca

• Overseas •

Provence. South of France. Furnished three-bedroom house, picturesque Puylobier, 20 km from Aix. Available from July for short- or long-term rental. Please contact Beth at 416-533-8844 or b.savan@utoronto.ca; website: www.maisonprovencale.org

South of France. Furnished one-bedroom house with terrace, WiFi, washer, BBQ; sleeps 5, in picturesque Les Salces, 10 km from Lodeve and Clermont l'Herault west of Montpellier. From \$1,200/month inclusive. Contact Beth at 416-533-8844, b.savan@utoronto.ca; Website: www.homeaway.com/vacation-rental/p252988

Paris. Upscale, centrally located well furnished apartments in Notre Dame, Marais and Saint Germain, www.rentals-paris.com. Beautiful Paris fractional ownership properties, www.paris-fractional-ownership.com; Paris apartment hunting services: www.paris-aparts.com; 516-874-0474 or coopergl@gmail.com

Health Services

REGISTERED MASSAGE THERAPY. For relief of muscle tension, chronic pains and stress. Treatments are part of your extended health care plan. 360 Bloor St. West, Suite 504 (Bloor/Spadina). For an appointment call Mindy Hsu, B.A., R.M.T. 416-944-1312.

Feeling anxious, stressed or depressed? Relationship or self-esteem concerns? Want someone to talk with to help sort things out? Dr. Ellen Greenberg, Psychologist, Bloor & Avenue Road or Eglinton West Subway, 416-944-3799. Covered by extended health.

Dr. Neil Pilkington (Psychologist). Assessment and individual, couples and group cognitive-behaviour therapy for: anxiety/phobias, depression/low self-esteem, stress and anger management, couples issues and sexual identity/orientation concerns. Staff/faculty healthcare benefits provide full coverage. Morning, afternoon and evening appointments. Downtown/TTC. 416-977-5666. Email dr.neil.pilkington@rogers.com

Psychotherapy for personal and relationship issues. Individual, group and couple therapy. U of T extended health plan provides coverage. For a consultation call Dr. Heather A. White, Psychologist, 416-535-9432, 140 Albany Avenue (Bathurst/Bloor). drhwhite@rogers.com

Evelyn Sommers, PhD, Psychologist, provides psychotherapy and counselling for individuals and couples from

age 17. Covered under U of T benefits. Yonge/Bloor. Visit www.ekslibris.ca; call 416-413-1098.

Individual psychotherapy for adults. Evening hours available. Extended benefits coverage for U of T staff. Dr. Paula Gardner, Registered Psychologist, 114 Maitland St. (Wellesley and Jarvis). 416-570-2957.

Psychoanalysis & psychoanalytic psychotherapy for adolescents, adults, couples. U of T extended health benefits provide coverage. Dr. Klaus Wiedermann, Registered Psychologist, 1033 Bay St., ste. 204, tel: 416-962-6671.

Dr. Cindy Wahler, Registered Psychologist. Yonge/St. Clair area. Individual and couple psychotherapy. Depression, relationship difficulties, women's issues, health issues, self-esteem. U of T extended healthcare plan covers psychological services. 416-961-0899. cwahler@sympatico.ca

Sam Minsky, PhD (Registered Psychologist). Individual and couple psychotherapy and counselling covered under U of T extended health plan. Close to downtown campus. 647-209-9516. sam.minsky@sympatico.ca

Bay Chiropractic Clinic. Call to book a complimentary consultation. Services include chiropractic, physical therapy, medical acupuncture and custom orthotics. Services covered by extended health care plans. 1033 Bay St., suite 322 (Bay/Bloor). 416-966-6600. Email: info@baychiropractic.ca

Miscellany

Trying to finish that manuscript? A good editor can help. I have experience in academia and provide editing services for many fields, including history, law and the health sciences. Contact Shealah Stratton, 647-478-7273, ssatton@agoodeditor.com

Professional transcribing service available for one-on-one or multi-person interviews, focus groups, etc. 20+ years of experience at U of T. References available. Call Diane at 416-261-1543 or email dygranato@hotmail.com

BOOKING AN AD

A classified ad costs \$30 for up to 35 words and \$.50 for each additional word (maximum 70). Your phone number/e-mail address counts as two words.

A cheque or money order payable to University of Toronto must accompany your ad. Visa, Mastercard, or Amex is acceptable. Ads must be submitted in writing, 10 days before the *Bulletin* publication date, to Mavic Ignacio-Palanca, Strategic Communications Department, 21 King's College Circle, Toronto, Ontario M5S 3J3.

Ads will not be accepted over the phone. To receive a tearsheet and/or receipt please include a stamped self-addressed envelope. For more information please call (416) 978-2106 or e-mail mavic.palanca@utoronto.ca.

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MUSIC

Carillon Recital.

Wednesday July 20

Eddy Mariën, city carillonneur of Mechelen, Belgium. A printed program will be distributed and chairs will be set up outside for listeners. Soldiers' Tower, 5 p.m.

PLAYS & READINGS

Lysistrata — the Sex Strike.

Wednesday, July 20 to Saturday, August 6.

By Aristophanes; adapted by Germaine Greer and Phil Willmott; directed by Andrea Wasserman. Canopy Theatre production. Philosopher's Stage, Philosopher's Walk. 8 p.m. Tickets \$10, students and seniors \$8. www.uofttix.ca.

EXHIBITIONS

**JUSTINA M. BARNICKE GALLERY
HART HOUSE**

COMMITTEES

A search committee has been established at the University of Toronto Mississauga to recommend a chair of the Department of Sociology, effective Sept. 1 or soon thereafter. Members are: Professors Amy Mullin, vice-principal (academic) and dean, U of T Mississauga (UTM), chair; Blair Wheaton, chair and graduate chair, sociology, St. George campus; Zaheer Baber, Paula Maurutto and Erik Schneiderhan, sociology, UTM; and Graham White, political science, UTM; and Julie Waters and Valerie Charun, undergraduate students, sociology, UTM.

The committee would appreciate receiving nominations and/or comments from interested members of the university community by July 25. These should be submitted to Professor Amy Mullin, vice-principal (academic) and dean, Room 3200H, William G. Davis Building; fax, 905-828-3979, amy.mullin@utoronto.ca.

Don't Stop Believing. To August 20

First major solo exhibition of Vancouver-based artist Kevin Schmidt in Canada and internationally; curated by Barbara Fischer. Gallery hours: Monday to Saturday, noon to 5 p.m.

MISCELLANY

Hart House Craft Beer Festival. Thursday, July 28

A diverse selection of beers, food by Marco Tucci, Hart House executive chef, and CIUT DJs spinning summery beats. Hart House Quadrangle. 7 p.m. to 1 a.m. Tickets \$35, students \$30 (plus tax), pack of four \$120, students \$100 (plus tax). Admission restricted to 19 or over (no children, no infants) www.uofttix.ca; 416-978-8849.

Historical Walking Tours To August 31

Perfect for anyone who wants to know about U of T's architecture and history. Monday to Friday, 2:30 p.m. For more information, contact the Nona Macdonald Visitors Centre, 416-978-5000.

DEADLINES

Please note that information for the Events listing must be received at the Bulletin offices, 21 King's College Circle, by the following times:

Issue of **August 23** for events taking place Aug. 23 to Sept. 20: **Tuesday, Aug. 9.**

Issue of **September 20** for events taking place Sept. 20 to Oct. 4: **Tuesday, Sept. 6.**

We also encourage you to post events on the events calendar website (www.events.utoronto.ca). For information regarding the Events section please contact Ailsa Ferguson at 416-978-6981; ailsa.ferguson@utoronto.ca.

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A CONVOCATION ADDRESS BY PAUL MARTIN

Thank you Chancellor Graham. And thank you Chancellor Peterson, President Naylor, Dean Moran, members of faculty, graduates, ladies and gentlemen for the honour that has been bestowed upon me.

To have received an honorary degree from one of the world's great universities is humbling enough, but when that university is the University of Toronto, where both Sheila and I were educated, I cannot help but be deeply touched.

Finally and most important, to the graduates who have worked so hard to get here, let me congratulate you. This is your day and I am very grateful that you have allowed me to share it with you.

Now there are those of you who may ask, What did Paul Martin do when he was at law school to deserve this award?

Did I win the Gold Medal? No I didn't — Bill Graham deserved that. So why am I here? I'm here to correct a great miscarriage of justice. I lost my case in the moot court. This despite my acute analysis, my meticulous preparation and my brilliant presentation of argument, inexplicably, the judges failed to grasp, failed to understand, the finer points of law I had raised. Rarely has there been a greater instance of justice gone awry.

However be that as it may — much water has gone under the bridge since then and I have no hard feelings. But I want you to know that I regard this honorary degree as reparation, as a step towards the recognition that had I won the case, I might be on the Supreme Court of Canada today — a job which among other things certainly has more job security than that of prime minister.

Having gotten that off my chest, now to the matter at hand.

I have been asked to share with you the steps to take to a successful legal career. Never having practised law, this presents a bit of difficulty. On the other hand, it does give me the opportunity to raise with you the importance of a new initiative to be offered at the law school next year — a program that you might want to consider in time.

Now I'm sure you are saying to yourselves — Is he kidding? We are just graduating and he's telling us to go back to school.

Well let me explain. It's a master's program entitled Global Professional Master of Laws.

I learned about it the other day when talking to Professor Trebilcock. I had asked him why it was that as the spread of globalization widens that so much of its space is taken up by economists, by engineers, by sociologists and so very little by lawyers?

My point was one would have thought as the world grew smaller and the interdependence of nations became the order of the day, that the rule of law would have become the dominant ethic across the world and its practitioners the major players.

It was then he told me of the new program.

So why, you ask, do I think it is such an important initiative?

Well my answer is that not everyone in the world gets their case law from the Ontario Reports and increasingly whether you are working for a Canadian mining company operating in Africa or practising family law in Barrie, the issue of conflict of laws, and even more to the point the need to understand how different value systems permeate the making of laws, may well determine your success and that of your clients.

However, I know you understand this and so rather than belabouring the point, let me approach the



issue from another perspective, one that has become increasingly important in the last couple of years as the shifts in the world's political winds go from gentle breeze to typhoon.

Not surprisingly, for most of the last century the primacy of the national sovereignty as determined by the great powers has dominated whatever there was of the global legal system. For instance: U.S. corporate law, British maritime law, the veto power of European competition law and whenever this became untenable the laws of the world's superpower — the U.S.A. — tended to fill the void.

Well clearly, given the rise of China and the other resurgent economies, those days are over.

Thus it is more urgent than ever that we reform the old institutions of global governance and that where necessary we build new ones. Even more to the point when we do so, it is lawyers who must set the context. The answer cannot be left to the squabbling of economists, for why would we build an international model that has all the market freedoms of our national economies but none of its protections?

The fact is, despite all of our talk about globalization over the last 25 years, today's crisis shows just how unprepared the world's governments were and still are when faced with a global economy whose problems lie beyond the scope of purely national solutions.

Nowhere is this more true than in the case of today's banking crisis which began in Europe and the U.S.A. but the consequences of which have now spread far and wide throughout the global economy. The reason for this, quite simply, is that as things currently stand the global financial system cannot deal with the reality of contagion as economic pandemic and institutional rot skip from country to country and from continent to continent. The fundamental problem that is front and centre in today's crisis is not just the cross exposure to risk between players within a nation's borders — it's the cross exposure to risk that transcends those borders.

What's the issue? It lies in the definition of sovereignty, a definition which was established 350 years ago in the Treaty of Westphalia and which focused only on sovereign rights.

The issue today, such is the interdependence of nations in 2011, that the definition of sovereignty must now include sovereign duties as well. This is true in the case of climate change, the threat of pandemic disease, food security, cyber crime and the Responsibility to Protect. It is true in almost every instance involving the interaction of nations.

For example, returning to the financial crisis, when the U.S. and European financial players created toxic assets and sold them around the world to everyone's detriment, was that not an infringement on the rest of the world's sovereignty? Is today's global recession itself not the result of the infringement on the sovereignty of every country that has been affected by the failure of the European and American banking systems to exercise minimum standards of prudence?

It is because of questions like this that I believe the legal profession around the world must stop playing the role of wallflower at the global party.

Is this urgent?

More than we will ever know!

For if the bank problems in the West have brought it to its knees, ask yourself what will happen when the Chinese and Indian banks become as dominant globally as their American and European counterparts are today and a major Chinese bank fails or a mortgage meltdown occurs in India?

Therein lies the real challenge for your generation and the answer, it seems to me, is pretty straightforward. It is to recognize that global rules, principles and standards judicially enforced do not infringe on national sovereignty. They strengthen it by enabling national governments to solve problems that transcend their borders. That is the argument I believe the legal profession must make if the interdependence of nations is to be a benefit to the world and not a threat.

And that is why, Dean Moran, you and the faculty are to be congratulated. The new program on global law reflects a state of mind that is sorely needed and I hope over the years its reach can be expanded.

For example there is no doubt that as a result of the banking crisis, the banking industry will never be the same again.

For the same reason my point is the practice of law will never be the same again and you will truly be the first generation of "lawyers without borders."

Indeed the process is already underway with the attempt, however faltering, to make globalization work better through the creation of the G20. And this is but the beginning.

For this reason and for many others, to all of you graduating today I cannot tell you how much I envy you.

You will live in a world that has never been seen before. For Canada's lawyers it can be one of unprecedented opportunity.

I know you will handle it well.

You will do so for many reasons, not the least of which is that you are graduates of one of the world's great law schools, and one of the world's great universities.

And by the way, for those of you who did not win in moot court, remember your time will come.

Good luck.

Thank you.

Paul Martin is the former Prime Minister of Canada and a graduate of the Faculty of Law. He received an honorary doctor of laws degree during the faculty's 2011 spring convocation and delivered this speech to the graduating class.

MAREK CIEKIEWICZ